

IN THE CLAIMS

1. (Canceled)

2. (Canceled)

3. (Canceled)

4. (Canceled)

5. (Canceled)

6. (Currently Amended) An engine stop and start control system for a vehicle, wherein the vehicle comprises:

an engine as a power source for driving the vehicle;

a transmission for transmitting power produced by the engine to an output shaft of the vehicle; and

a mechanical oil pump, operated by the power produced by the engine, for supplying oil pressure to the transmission, and

the control system comprises:

an automatic engine stopping and starting section for automatically stopping the engine under predetermined stopping conditions, and automatically starting the engine under predetermined starting conditions, and restarting the engine when a value of current flowing through a driving motor for driving an electric oil pump is out of a predetermined range while the engine is automatically stopped, wherein ; and

an the electric oil pump is operated when the predetermined stopping conditions are satisfied, so as to supply the oil pressure to the transmission;

~~wherein the automatic engine stopping and starting section has a control section for restarting the engine when a value of current flowing through a driving motor for deriving the electric oil pump is out of a predetermined range while the engine is automatically stopped.~~

7. (Original) An engine stop and start control system as claimed in claim 6, wherein the control section restarts the engine when the state in which the value of current is out of the predetermined range has continued for a predetermined time.

8. (Currently Amended) An engine stop and start control system for a vehicle, wherein the vehicle comprises:

an engine as a power source for driving the vehicle;

a transmission for transmitting power produced by the engine to an output shaft of the vehicle; and

a mechanical oil pump, operated by the power produced by the engine, for supplying oil pressure to the transmission, and

the control system comprises:

an automatic engine stopping and starting section ~~for automatically stopping the engine under predetermined stopping conditions, and automatically starting the engine under predetermined starting conditions, and restarting the engine when one of a driving voltage and a duty ratio in pulse width modulation of a driving motor for driving an electric oil pump is equal to or greater than a predetermined value while the engine is automatically stopped, wherein ; and~~

an the electric oil pump is operated when the predetermined stopping conditions are satisfied, so as to supply the oil pressure to the transmission via an oil pressure

supply section, where one of a the driving voltage and a the duty ratio in pulse-width modulation of a driving motor for driving the electric oil pump is controlled in a manner such that one of a line pressure, which is the oil pressure in the oil pressure supply section, and a value of current flowing through the driving motor coincides with a predetermined command value;

~~wherein the automatic engine stopping and starting section has a control section for restarting the engine when one of the driving voltage and the duty ratio is equal to or greater than a predetermined value while the engine is automatically stopped.~~

9. (Original) An engine stop and start control system as claimed in claim 8, wherein the control section restarts the engine when the state in which one of the driving voltage and the duty ratio is equal to or greater than the predetermined value has continued for a predetermined time.

10. (Canceled)

11. (Currently Amended) An engine stop and start control system for a vehicle, wherein the vehicle comprises:

an engine as a power source for driving the vehicle;

a transmission for transmitting power produced by the engine to an output shaft of the vehicle; and

a mechanical oil pump, operated by the power produced by the engine, for supplying oil pressure to the transmission, and

the control system comprises:

an automatic engine stopping and starting section for automatically stopping the engine under predetermined stopping conditions, and automatically starting the engine

under predetermined starting conditions, and prohibiting the automatic engine stop when a slip ratio of a clutch for a gear for starting the vehicle in the transmission exceeds a predetermined range in a predetermined time after the engine is restarted from the state in which the engine is automatically stopped; and

an electric oil pump operated when the predetermined stopping conditions are satisfied, so as to supply the oil pressure to the transmission;

~~wherein the automatic engine stopping and starting section has a control section for prohibiting the automatic engine stop when a slip ratio of a clutch for a gear for starting the vehicle in the transmission exceeds a predetermined range in a predetermined time after the engine is restarted for the state in which the engine is automatically stopped.~~

12. (Currently Amended) An engine stop and start control system as claimed in any one of claims 1, 4, 6, 8, 10, and 11, wherein:

the vehicle is a hybrid vehicle which further comprises an electric motor as a power source for driving the vehicle; and

the mechanical oil pump is operated by at least one of the power produced by the engine and power produced by the electric motor.